19980811.ba v02_n165.bam.980811 v02_n166.bam.980811

>From ???@??? Wed Aug 12 05:27:27 1998
Message-Id: <199808111233.HAA12278@sco.theporch.com>
Date: Tue, 11 Aug 1998 07:31:41 CDT
Subject: BOATANCHORS digest 2165

BOATANCHORS Digest 2165

Topics covered in this issue include:

 19) Re: Best BA RX ain't Interceptor
     by ke8rn@juno.com (GEORGE J MISIC)
 20) Re: SX-42 gotchas
     by ke8rn@juno.com (GEORGE J MISIC)

From: "Steve Hill" <SHILL@onaustralia.com.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Connectors needed
Date: Tue, 11 Aug 1998 07:07:01 +1000
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-Id: <21122816035517@domain1.bigpond.com>

Boaters,

I need some connectors so I can make up a harness for my
Sunair ASB-100.

The connector on the Transmitter is a 16 way male Cannon.
There are two thicker pins near the bottom.
The pins are numbered from 1 to 16. I need the female connector
to mate to this.

The reciever and control head both use an identical connector.
It is a male 34 pin connector. The brand is Winchester El. Inc.
There also is the designation MRA 34P written on it.
I need two of the female connector to mate to it.

Thanks

Steve Hill   VK4CZT
<SHILL@onaustralia.com.au>
visit my military radio page
<http://www.users.bigpond.com/SHILL>
39 Banbury St
Carina. 4152.
Brisbane. Queensland. Australia.

From: deanbers@ix.netcom.com
Date: Mon, 10 Aug 1998 16:29:46 -0500 (CDT)
To: Old Tube Radios <boatanchors@theporch.com>
Message-Id: <1998810143023241@>
Subject: BC-1206-C Info and History
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Would anyone care to elaborate about a BC-1206-C?
This unit is made by Setchell Carlson and is a model 524.
The receiver dial says it covers 200 to 400.

Every once and the while I find something which
I know little about..

Which plane would have used this receiver?

Message-ID: <35CF7573.3860E990@roanoke.infi.net>
Date: Mon, 10 Aug 1998 18:34:27 -0400
From: "David M. Nance" <dmnance@roanoke.infi.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>, wa8mlv@juno.com
Subject: Re: SX-42 gotchas
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've got one of these waiting in the wings for recapping and
restoration. You guys are scarring me to death!

GEORGE J MISIC wrote:

> Swines is being kind to this BA for circuit access! Great when they
> are
> running; however. 73.
>
> George KE8RN
>

From: ARONGV@aol.com
Message-ID: <da1bf096.35cf7b41@aol.com>
Date: Mon, 10 Aug 1998 18:59:12 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: R-390A/URR FS
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Gang:

I wouldn't normally do this, but I have a good friend who has a very nice receiver to sell. I suggested he let me list it here for him.

Therefore, please responmd to him, NOT ME. So shoot him an note direct, not on this list, if you want to talk about it.

He says;

Hello, there. I have for sale an R-390A/URR this is in good condition and comes with both top and bottom covers as well as the original meters that glow in the dark!

It covers practically from zero to 32 MHz. Inside I can see that is does have four Collins mechanical filters: 16, 8, 4, and 2 KHz. I can also see two that read 1 and .5 kHz.

I'm not an expert, but I can say it receives very well and that it looks really nice. If you want to see a picture before contacting me, you can see several angles of it by punching in http://www.geocities/Yosemite/Rapids/7583/r390a01.JPG. To see the remaining pictures, just change the last number to 02, then 03, 04, and 05.

I've dealt with Alan and he is honest, punctual and has only sent me quality items, but he's not a dealer.

You can reach him direct at: jcs4us@cosmoaccess.net He's asking $325.

73s Ron W0OIZ

Message-ID: <35CF83BA.6C57@worldnet.att.net>
Date: Mon, 10 Aug 1998 19:35:22 -0400
From: John Dilks <oldradio@worldnet.att.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Neat RX found: "Silvertone Standby" - 1937
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

to all,

Neat RX found: "Silvertone Standby" - 1937

It was listed in the 1940 Sears radio catalog I have, as a clear-out sale item. It looks like a slightly smaller, grey, RME-69.

The original owner sold it to me today. I got the original speaker too. -=but=- I need to go back and look for some of the original knobs. (some were replaced.) He promissed me the manual, as soon as he finds it.

Does anybody have one of these?

I will bring it with me to the following meets [It's not for sale!]:
Mullica Hill NJ - Aug 23, AWA meet NY - Sep. 2-5, Gathersburg MD Sep. 13, SJRA NJ Sep. 19.
--
73' John Dilks, K2TQN

Webmaster for the Antique Wireless Association
http://www.ggw.org/awa Click on "Page 2"
-=and=-
for the New Jersey Antique Radio Club
http://www.eht.com/oldradio
----------please-visit----------

From: ARONGV@aol.com
Message-ID: <e6139a04.35cf7f27@aol.com>
Date: Mon, 10 Aug 1998 19:15:49 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Re Viewing FS 390A/URR Receiver
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

If you have trouble with your server accessing this site, http://www.geocities.com/Yosemite/Rapids/7583/r390a01.JPG, Alan can either shoot you pics direct or select another route, but you will be able to see it.

Ron W0OIZ

Date: Mon, 10 Aug 1998 19:18:10 -0500
From: "wayne.harrah" <wayne.harrah@mci2000.com>
Subject: RE: AMANA HAMFEST REPORT- another perspective
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01c601bdc4bd$86ebb820$3cd137a6@skjseefa>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

BoatAnchorBuddies,

I was there, too. This is no kidding; this is the FIRST (and I DO MEAN FIRST) SP-600 I have seen at a hamfest since first seeing one at Brian Harris (wa5uek) last summer. This one was a real CHERRY (spotless, inside and out), reportedly worked flawlessly, no covers or cabinet; asking $325. I guess it didn't sell.

There was only ONE R-390a that I saw, but, the same guy, (BA list member John Richardson) had this one, and it looked brand new, too. The ZERO BEAT knob/shaft was distressed (the knob flopped around), but otherwise looked immaculate. Been reading the thread on "smoothest rig" and I'd say, this 390a worked as good as ANY SP-600 I've knobtwirled other than the clicketyclickety of the counter numbers). He had it marked for $375. However, John is a very VERY nice, honest Man, but he is also used to seeing me (a grown man) cry, so, I didn't linger. (He had an almost NIB GRR-5 setup (with all the accessories!) for $150 last year, and I, too, didn't have it then. (Fixing to buy a house, you see.) I'da thought about selling my Mom, but, she wasn't around, and well, I guess gentlemen don't do those things, so, I didn't get it.

No sense embarrassing both of us (John or I) further. I just didn't have the money. (John, I'm writing Santa a letter just as soon as I finish with this one!) Hummahummahumma....("if I could only put a 4th mortgage on the house.....hmmmm.....")

I am sorry I didn't specifically introduce myself as a BA list guy whilst I was "babysitting" Al (K0AL's) stuff while he gave VE exams. Guys, it was nice to meet you. Also, Mike Souhrada was there, WB9IOG.

I am looking forward to a visit with "Capt. Cosmophone" as I make a special vacation (turned into a late business extension "while I was there") trip to TX to help learn from the MASTER. I can with him for a day or two. Being in good BA company HAS to rub off something good! If I'm around someone who understands so much technobabble, eventually, some of it will stick.

I am DRIVING this time instead of flying so I can TAKE STUFF HOME WITH ME! :) Hope the old Jeep can handle what I may end up bringing home! 900+ mile trip one way, jeep ALREADY has over 197k on it. This oughta be good.

I'm gonna try to give you some of the prices I remember seeing with the stuff Al mentioned earlier on his post of the AMANA fest, as he didn't list any prices:

S-38 (average looking) $60 (!) yep. that was the price. In the rockpile of life, this one looked like a limestone, and he wanted $60.....
HQ-145 (no clock) $75 (lowball deal to a friend of K0AL, sold easily)
SB-301, wrong tuning knob, worked, $75, w CW filter
HT-37 (pretty good "8 or 9", one significant scratch on face) $125. One HT-37 about a "7", marked $80.

SP-600, easy "9-10", marked $325
R-390a (only one I saw), easy "9-10", very smooth, marked $375, didn't sell. (I think John still has it if you are interested, when I left at 1:30 due to family committment at home. NO they weren't having ME committed...)
Johnson Pacemaker, worked about "8.5" $200, sold .
HT-32A, about a "7", reportedly works, $75, sold (to same guy as Pacemaker).
HW-101 (at least one) pretty clean, about "8-9" w ps, $175.
cap tester, To-3, looked almost new, for $15, reportedly works. Came home with me.

I've been very interested in the SP-600 threads lately, as Brian Harris is selling me one of his "children" when I visit. BFO is broken, so I have a learning curve to climb. Keep 'em glowing!

More later.

Buzz, ke0ms

Date: Mon, 10 Aug 1998 17:12:34 -0700 (PDT)
Message-Id: <2.2.16.19980810170648.55973858@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: Re: FIRST USE OF COAX

At 04:11 PM 8/10/98 -0400, JOHN SEHRING wrote:

>Coax was looked at by the Bell System in early 30s.

>Then, in mid-late 30s, when TV was being made practical, coax was the way
>to transmit wideband (say 4 MHz) bandwidth video sigs over the long
>distance system to give network TV.

Indeed, but perhaps the most interesting early use of coaxial (or concentric) transmission lines was to promote... goat gland implants!

Yep, that's right. XERA, the famous 500,000W border blaster used by Doc Brinkley (after the FRC refused to renew his lecense for KFKB in Kansas - he showed *them*!) was designed and built by James O. Weldon, who later founded Continental Electronics. After reading the previously unpublished account of the design and construction of XERA based on Weldon's papers (in the Spring 1996 edition of the Proceedings of the Radio Club of America) I'm prepared to nominate him as one of the greatest high power transmitter engineers ever. Check it out: 500,000 *unmodulated* carrier output into a directional array with 3db gain... on 540Kc. On an occasion of particular spectacular corona discharge the Doc's voice could be clearly heard in

nearby Villa Acuna - with out the aid of radio receiving equipment.

As to the transmission line, I quote:

"The output of the transmitter was connected to the phasing equipment by a 75 ohm concentric transmission line made of a two inch diameter copper inner conductor and a seven inch diameter copper outer conductor. Under normal operating conditions, the RF current in the line measured approximately 83 Amperes or slightly less than 520,000 Watts."

Man! That gets me worked up better than any damn goat glad implant!

D.

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From: CEMILTON@aol.com
Message-ID: <70437e4d.35cf98e9@aol.com>
Date: Mon, 10 Aug 1998 21:05:42 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Zenith R-520/URR (or a highly
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

modified H-500 Trans-Oceanic by any other name) I recently acquired one of the ugliest T-O's in history----------covered top to bottom with green house paint. Even the plastic escutcheon and removable wavemagnet were literally globbed with layers of the stuff. Thinking it to be a good parts radio I took it home and upon opening the back received the surprise of my life. This "thing" had the military markings on the chassis and is, in fact, the rare R-520/URR. Good news is the chassis is intact and easily restorable electrically. Dial face is perfect. Knobs seem to be correct ones. Bad news is the escutcheon is toast. As is wavemagnet. I have removed the paint from the cabinet, but still unsure I will ever get the nice tan color back on the oil cloth. But, I need some help identifying the correct color of the plastic escutcheon. The wavemagnet is tan in color. Should the escutcheon also be tan? Bryant&Cones T-O Book have this radio pictured on p.84 but the picture does not match the paragraph on Cabinet Design on p. 86. Also, the

knobs in the pictures look to be from a civilian T-O. I would appreciate any help in verifying this color scheme.

Now for the $64k question. Does anyone have ANY of the following parts for this beast: Wavemagnet; 2 suction cups; red colored twinlead with proper plugs on both ends; the spare tube holder; the escutcheon; the military i.d. plate for the outside front of the receiver; and the original (or copy) of the S.C.P.A. (Signal Corp Publication Agency) book that was contained in the pouch on the inside rear cover.

I wish to restore it to as near 100% as possible. Any help on any of the above is greatly appreciated. Thanks in advance.

73

KF4LYF, chuck

Message-ID: <020801bdc4c6$a35a1340$308a3ece@default>
From: "Robert Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTB: HT-32 VFO
Date: Mon, 10 Aug 1998 20:18:28 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I'd like to find the complete VFO assembly from an HT-32 transmitter if anyone knows of a junker or parts rig.

Thanks and 73,

Bob W9RAN

Message-ID: <023801bdc4ca$379fcf60$308a3ece@default>
From: "Robert Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Cleaning copper crud
Date: Mon, 10 Aug 1998 20:48:02 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

The mouse infestation has resulted in a couple of tube socket terminals acquiring a yukky-looking layer of blue-white crud. My long forgotten chemistry classes (supplemented by covert experiments with the Gilbert chemistry set) lead me to suspect this is some copper salt, but I'll just refer to it by the technical name, "crud".

Is there any practical way to chemically dissolve this crud? The affected area is not accessible for mechanical cleaning, so I'm hoping there is some way I can brush, spray, or soak to remove it.

Thanks and 73,

Bob W9RAN

From: MNHopkins@aol.com
Message-ID: <55ad9470.35cfa602@aol.com>
Date: Mon, 10 Aug 1998 22:01:37 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Some real BA scholarship
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Jackatak, that towering figure who presides over the Boatanchors experience, calls upon us to conduct "a seminar." I did two of those in school, one on the Mexican War of 1846 and one on Feminist Jurispurence. We met and discussed things and everyone did his part to contribute. Concise, precise writing, by the way, was the rule. That said, I want to share an e-mail I just received from Larry Kirkland as it meets the seminar ideal as well as any of the many I have seen:

Subj: T-Craft Converter
Date: 98-08-10 20:43:22 EDT
From: lckirkland@earthlink.net (Larry Kirkland)
To: MNHopkins@aol.com

Michael, I checked out my T-Craft converter tonite and this is results:
Top Label: T-Craft
Cascode Converter
VHF Series
- Has white stripes around top
- Has box type coils
- Xtal is parallel to long axis
- has Motorola output connector
- Paper label on bottom reads: Unit Serial Number 10400

IF Freq 14-18
Model CC-50

-has 4 tubes
- has RF adjust pot
- has SO-239 input
- Has mating power supply w/ one tube

That should pretty much tie it down. Thanks for your help.
73's....Larry W4LK

73 de ab5L, michael in dallas, student of Tecraft and International Crystal (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
Michael Hopkins
Box 226841
Dallas, TX 75222   MNHopkins@AOL.com

Date: Mon, 10 Aug 1998 21:14:05 -0500
From: "wayne.harrah" <wayne.harrah@mci2000.com>
Subject: Fw: Fuse both leads??
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <021201bdc4cd$b7edd9c0$3cd137a6@skjseefa>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

>> Why would you need to fuse the negative lead as well??
>
>Ed,
>
>It seems to me I remember reading the same thing.... The bottom line was
(if
>I remember right):
>
>[1] If the ground-return for the starter system (theoretically the engine
>block/frame cable connection to the battery) became lossy/high resistance,
>
>AND
>

>[2] If you connected your radio ground right to the battery ground post (as
>most of us might)
>which might be very LOW RESISTANCE,
>
>THEN
>
>[3] PERHAPS there was danger that it was possible for high currents
(RUNNING
>THE CAR STARTER) to travel (in their attempt to get back to the battery)
>From the starter, through a portion of the frame, to your radio (via some
>low-R path, perhaps thru the coax shield), to your radio chassis and try to
>travel to the battery via that path. Could be traumatic to wiring.
>
>Remember, fuses (we are told) are designed to protect WIRING, not
equipment.
>
>(See, you guys didn't think anyone was paying attention, did you?)
>
>Buzz
>
>"Buzz" Harrah, ke0ms
>Wayne.Harrah@mci2000.com
>
>Q: Why do PSYCHICS need to ask you your name, anyway?
>
>p.s.- I don't do it though.... Figured my chances of that happening were as
>good as having a toilet falling on me from a 747.
>
>

Date: Mon, 10 Aug 1998 21:40:46 -0500
From: "wayne.harrah" <wayne.harrah@mci2000.com>
Subject: R-47 spkr trade?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <023701bdc4d1$728268c0$3cd137a6@skjseefa>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

BottleBuyers,

I have a very good condition R-47 speaker. Anybody like to trade me for an
R-46 (or maybe another of the bigger halli variant speakers)? The little
one works and looks fine if you like that sort of thing. (The looks are too
much like a mobile speaker for my taste on a desk radio.)

(I might be convinced to sell it if I can't trade for a proper replacement,

I suppose.)

Please let me know via private email.

"Buzz" Harrah, ke0ms
Wayne.Harrah@mci2000.com (home)
Wayne.Harrah@mci.com (work)

Q: Why do phychics have to ask your name, anyway?

Message-Id: <199808110517.AAA09569@sco.theporch.com>
Date: Tue, 11 Aug 1998 01:19:33 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Glenn Finerman <glennfin@mjet.com>
Subject: R392
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, I finally finished my homebrew dual suppply for my new
R392,,,,Set the filament voltage to 25 volts, the plate to 32
volts, wired the connector, hooked-up my LS-3 speaker and
attached the antenna.......It works!!,,, shortwave broadcast on the
9 and 6 mcs bands blaring out of the LS-3. Those guys at Fair
weren't kidding when they said they checked it out to make sure it was
working even though it was a "used repairable" unit. BUT.....
(there's always a but!) a few observations......

The meter is completely dead, the kilocycles tuning feels like
it almost binds-up in spots and is VERY stiff, the calibration is
off by 20kcs and can't seen to correct it by using the "dial zero"
control, the sensitivity seems low,....other than that, I LOVE IT!!!
It's gonna need some serious bench time to get it where I want it
to be but at least it works and that's not a bad place to start!

One interesting thing, after I ran it for around an hour I noticed
condensation on the inside of the dial glass (really plastic)
Not sure if this has anything to do with it but the air conditioner
has been on in the shack this evening.....Hope there isn't any
moisture inside!!!....

73.....Glenn Finerman K2KL   glennfin@mjet.com
(formerly NA2DX, N2BJG)

WANTED = Collins 51S1 (rack version) "fixer-upper"
Collins R-864 receiver, R-105 / ARR-15 receiver

Message-Id: <199808110528.WAA01547@mail-gw6.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Smoking Switch Wafers
Date: Mon, 10 Aug 1998 22:29:21 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Y'all;

Been reading the sad reports about sparking, smoking and burning switch wafers. Seems those wafers wanted to behave more like conductors than insulators. If you stop and think for a moment what causes switches to develop shorts before you stick the juice to that BA you will probably realize that old radios get rusty and corroded because of the presence of moisture and that switch wafers make great water sponges. Mix in the dirt that is the result of accumulated dust and you have a switch buried in a mud pack. Ever use mud for an insulator? Only works if the mud is REALLY DRY.

Cleaning a radio so that it WORKS when you are finished takes patience and perseverance. Removing excess accumulated dirt from switches is obvious. Not so obvious is getting the moisture out of the switch wafers. That's where a good oil based moisture displacing contact cleaner and/or electrical corrosion preventive formula earns its keep. Plenty of warmth (as in summer day and warm house) is indispensable in aiding the effectiveness of such formulations.

ALWAYS use a lubricating contact cleaner such as *Deox-it* to name one product. DO NOT use a degreasing solvent as without lubrication the switch contacts will soon be ruined. Let the cleaner/lube do its job to soften dirt so that the dirt can be scrubbed out of the switch with a brush while the cleaner/lube begins to displace the moisture. Although the next comment will elicit wailing and gnashing of teeth, I find (shudder) WD-40 to be ideal for phenolic switch wafers. DON'T spray cleaner lubes into RF and IF coils or trimmer caps

Let the radio sit for a while (one day) and reapply your solution as you will have noticed the first application has soaked into the phenolic wafer. A little more lube will help to be sure the wafer is saturated. Let the switches dry for several hours before applying power (to avoid fire while the volatiles are still evaporating).

Applying WD-40 to power transformers and filter chokes in a like manner has the same beneficial effect. Taking a little more time with a radio before you turn the electromotive force genie loose will keep your radio out of

the burn ward. With rare exception, my restoration projects are on the bench several days before power gets applied.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

Message-Id: <199808111038.GAA22893@vnet.villagenet.com>
Date: Tue, 11 Aug 1998 06:45:47 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: WF2U <mbendror@villagenet.com>
Subject: Wanted: R-1051B info (OK, it has tubes too and it weighs 80lb
  so it's a boatanchor...)
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Hi Boatanchorites,

1. Does anyone know where I can get the manual (0967-LP-427-4010) for the R-1051B receiver ?
2. Who sells just modules for the receiver?
3. Can modules from later models (D, E or F) be used in the B model?
4. I'm trying to make my newly acquired R-1051B work (so far without the manual) and I wonder if someone can identify the problem before I even find a manual: AM reception OK (is AM detected normally only through USB channel or both channels should be functioning in that mode?) . No BFO in CW position, output OK from USB jack . LSB mode nothing to very weak (from LSB phone jack), no BFO. USB mode: no BFO. ISB mode: weak output from both LSB and USB channels, no BFO.
Personally, with no experience with this receiver I suspect the mode selector/BFO module (which has "Good" greasepencilled over it...).

Your input would be gratefully appreciated....
73's from†† Meir, WF2U

Collector and user of† vintage amateur and military radio equipment.
Collector and user of vintage horse/cavalry equipment. "Boots and Saddles!"

"Boatanchors forever!"

E-mail address: mbendror@villagenet.com

Date: Tue, 11 Aug 1998 07:43:57 -0400 (EDT)
From: "P. J. Rovero" <provero@connix.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R392

Message-ID: <Pine.BSI.3.95.980811074119.26912B-100000@comet.connix.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Some of the components in your radio have absorbed moisture
over the years.

Get some dessicant packs, put them in there, seal the case.
Operate radio. Repeat process until it stops....

P. J. "Josh" Rovero email: provero@connix.com
Oceanographer work: rovero@sonalysts.com
Meteorologist radio: KK1D
Curmudgeon at Large web: http://www.connix.com/~provero/

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: Best BA RX ain't Interceptor
Message-ID: <19980811.081145.6623.2.KE8RN@juno.com>
From: ke8rn@juno.com (GEORGE J MISIC)
Date: Tue, 11 Aug 1998 08:15:14 EDT

Michael and BA Gang,

I'll sure take the Interceptor over the HQ-170 due to the vastly improved
frequency stability of the Interceptor. On most HQ-170s, tapping the
bandswitch knob can be used to randomly scan about +/- 5 KHz on six
meters! The '170 does have a very effective albiet cumbersome bandwidth
selection system. Someday I would like to try a Tapetone Skysweep; I saw
one once, but have never tried one. 73.

George

On Mon, 10 Aug 1998 16:25:57 EDT MNHopkins@aol.com writes:
>   The Clegg Interceptor, a 20M RX with converters for 6 and 2, is not
>qualitatively different from a HQ-170A VHF, one of the all time great
>rigs.
>
>   The old timers used separate converters in front of various sets,
>often
>BC-348s, to good effect, but the king of the BA VHF RXs is the 1959
>Tapetone
>345 Skysweep, a 49 to 54mc with plug in spots for the Tapetone XC
>series
>converters -- the best of the era. Those converters were Cadillacs to
>Tecraft's Buick. The Tapetones had extensive shielding and trapping.
>Moreover, there are certain advantages to using a 6M IF.

>
> So spin your Eddystone, but don't think you are that far uptown.
>
>73 de ab5L, michael in dallas, student of Tecraft and International
>Crystal
>(ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
>Michael Hopkins
>Box 226841
>Dallas, TX 75222   MNHopkins@AOL.com
>
>
>
>
>

To: Old Tube Radios <boatanchors@theporch.com>
Cc: ke8rn@juno.com, boatanchors@theporch.com, wa8mlv@juno.com, w8vrj1@juno.com,
        doowop6@juno.com, wa8mlv@juno.com
Subject: Re: SX-42 gotchas
Message-ID: <19980811.082747.6623.6.KE8RN@juno.com>
From: ke8rn@juno.com (GEORGE J MISIC)
Date: Tue, 11 Aug 1998 08:31:20 EDT

Hey, all BA folks LOVE a challenge! You will ADORE working on this
receiver! If you are looking for even more fun, restring the dil cord in
the Eddystone drive on a Clegg Interceptor. 73.

George KE8RN

On Mon, 10 Aug 1998 18:34:27 -0400 "David M. Nance"
<dmnance@roanoke.infi.net> writes:
>I've got one of these waiting in the wings for recapping and
>restoration. You guys are scarring me to death!
>
>GEORGE J MISIC wrote:
>
>> Swines is being kind to this BA for circuit access! Great when they
>> are
>> running; however. 73.
>>
>> George KE8RN
>>

>
>
>
>

End of BOATANCHORS Digest 2165
****

>From ???@??? Wed Aug 12 05:28:27 1998
Message-Id: <199808112321.SAA17822@sco.theporch.com>
Date: Tue, 11 Aug 1998 18:21:00 CDT
Subject: BOATANCHORS digest 2166

                  BOATANCHORS Digest 2166

Topics covered in this issue include:

 15) Selloff.need funds.
     by "Walter L. Marshall" <wmarshal@CapAccess.org>
 16) RE: ULTRA MODULATION A.M.
     by Ed Sieb <esieb@gmsiworld.com>
 17) Ranger Help (Long!)
     by Dan Martin <dmartin@visuallink.com>
 18) Re: BC1206C
     by Lenox Carruth <carruth@geo-thermal.com>
 19) RE: Ranger Help (Long!)
     by Ed Sieb <esieb@gmsiworld.com>
 20) Literature for sale
     by JONWEINER@aol.com
 21) RA6790 info needed (fwd.)
     by Tom Norris <badger@telalink.net>

Message-Id: <3.0.5.32.19980811073523.008d24f0@mail1.telalink.net>
Date: Tue, 11 Aug 1998 07:35:23 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom Norris <badger@telalink.net>
Subject: Re: R392
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:43 AM 08/11/1998 -0400, p rovero wrote:
>Some of the components in your radio have absorbed moisture
>over the years.
>
>Get some dessicant packs, put them in there, seal the case.
>Operate radio. Repeat process until it stops....
>

Better and easier solution - turn the radio on, leave it on a couple or three days with the little hex-head plug (between the knobs and right under the freq display on the front panel) removed. The heat should drive out any residual moisture.

After you have had it on few days, replace the plug - preferably before turning
the radio off, or at least while it is still warm.

73

Tom

Message-Id: <3.0.1.32.19980811084542.00905c44@magi.com>
Date: Tue, 11 Aug 1998 08:45:42 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Brisson <hagelin@magi.com>
Subject: Crypto wheels/cogs?
Cc: "Baxter Smith" <baxsmith@falls.igs.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Good morning,

A set of "crypto wheels" have just been sold at the following site:

http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=24048585

They are U.S. Army Signal Corps issue in a box identified as BX-37-B. There are
9 wheels and appear to contain "mechanical cogs".

I have contacted the National Cryptologic Museum and they cannot identify these
wheels. We would be much appreciative of any insight anyone may be able to provide.

Regards,

Richard.

Date: Tue, 11 Aug 1998 08:48:12 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199808111348.IAA14585@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R392

>From: Tom Norris <badger@telalink.net>
>
>Better and easier solution - turn the radio on, leave it on a couple or three
>days with the little hex-head plug (between the knobs and right under the
>freq display on the front panel) removed. The heat should drive out any
>residual moisture.

Well, no, it reduces the moisture but not that much. My dishwasher is
vented, but it gets much drier if I open it while it is hot to get some
circulation of air that has a lower dewpoint than what's in the box.

If it's still a problem in December, send it to Minnesota for a week. I'll get it dry and send it back. Already have a 392 (that didn't get wet).

Dry dessicant packs will work if you can get them, and keep drying them out in an oven before putting them back in the hot radio. It's gonna take time for the moisture to get out of the PTO, and rust is not reversible.

Regards,
Bill Hawkins

Mime-Version: 1.0
Date: Tue, 11 Aug 1998 08:57:21 -0600
Message-Id: <000E927E.@mails.imed.com>
From: mack@mails.imed.com (Ray Mack)
Subject: R392 Observations
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

I acquired my R-392 about 14 years ago as payment for getting an early Yeasu sand state rig back on the air. Not bad for 3 hours troubleshooting and a single diode from the junk box!

I, too, had trouble with moisture condensing on the frequency glass. I found the answer here on this group. There is a large hex thingy between the frequency knobs that is a vent plug. Turn on the radio and open up the vent. Let it run for a few hours and then close up the vent. It might take a while to get it to stop condensing.

My KC dial knob is also a little stiff. I presume that there is something to lubricate, but I get by with it the way it is. I seem to recall advice here that you want to be careful not to over lube the gears.

The meter is driven by a tube somewhere. Look on the schematic and find the right one and replace it. The meter in mine changes with heat. It works fine until it warms up. Then it just stays at the left edge. From this action I might be inclined to think that it is some sort of a bridge with resistors that are changing value with heat.

I have a *real* manual for the thing and I have looked at it just once. With all the things that are marginal on mine, it works so well that I just don't bother fixing it. This is a really fine piece of equipment. It looks like there is a lot of margin in the design.

We have been using it here at work as part of our pacemaker communication research!! I get to borrow the spectrum and network analysers so I figure a

loan of the R-392 is a good trade. The 8 KHz position and the IF out make for a really good MF receiver!

Ray Mack
WD5IFS
mack@mails.imed.com

Message-ID: <07E473510AF0D111ADFA00A0C9B4205226F798@mail1.pica.army.mil>
From: "Laudon, Kenneth (Kalman) A." <klaudon@pica.army.mil>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: R392
Date: Tue, 11 Aug 1998 10:01:11 -0400
MIME-Version: 1.0
Content-Type: text/plain

An even better solution, after drying out the insides, would be to charge the case with dry nitrogen, or perhaps even just any old inert gas you can get hold of (carbon dioxide would probably be ok, too). If the R-392 has a gas fitting, the job is easy. If not, just flush it for a while one-way via the vent, and then just quickly cap it up. You want positive pressure if possible, not a vacuum. If you happen to be a dentist and have nitrous oxide available, you'll probably enjoy using the radio more as it gradually leaks out. Of course it might help oxidization/corrosion of the radio components, but who would care?
,,,,,,,,,,73, Kalman W2ES
> ----------
> From: Tom Norris[SMTP:badger@telalink.net]
>
> Better and easier solution - turn the radio on, leave it on a couple
> or three
> days with the little hex-head plug (between the knobs and right under
> the
> freq display on the front panel) removed. The heat should drive out
> any
> residual moisture.
>
> After you have had it on few days, replace the plug - preferably
> before
> turning
> the radio off, or at least while it is still warm.
>
> 73
>
> Tom
>
>

Date: Tue, 11 Aug 1998 09:03:14 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199808111403.JAA14605@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Dachis' Rule redux

Dave Stinson said:
Collectablity and the resultant marketablity of a collectable
are like a tree- they have many roots and some are larger
then others. All, however, contribute to the tree.

Another root to the tree is the "tastemaker" effect. There's a herd that follows someone who sets trends (or fads). Age is not a factor, although younger people are easier to influence. That would explain $1000 for a plastic AA5 (Catalin) or more for 'toob' audio, or even offshore prices for Collins and other classics.

Wonder if classic test equipment will ever catch on (of the 50's and 60's, that is)?

Regards,
Bill Hawkins

Message-ID: <35D07DDC.3A26@erols.com>
Date: Tue, 11 Aug 1998 10:22:36 -0700
From: philip mccoy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BC1206C
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

These radios the BC-1206C ,the one made by detrola and the one made by (I think) Ranger, covered the 200kc to 400kc becon band. The IF was 135kc. The filaments and plates ran off of 28 volts. They were pluged into a standard aircraft instrucment panel. You will notice 4 screw holes in the front panel. They were provided to the pilots ferring the B17s and other large airplanes across the atlantic during WW2. Your set made by SC was the best.

14H7 RF stage
14J7 converter
14H7 IF
diode detector and AF stage
28D7 pushpull audio.

300 ohm and 4000ohm headphones. The tye point is on the audio output transformer

Very good sets.

Oh forgot, there were some modifications in the SC sets. I have several. One of my SC sets has tower frequency 278kc listed on the front panel.

note. My memory is not to good, but the grid bias for the audio output tube might come from the oscillator section of the 14J7. This was done in some domestic radios.

Date: Tue, 11 Aug 1998 10:46:33 -0400 (EDT)
From: "P. J. Rovero" <provero@connix.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R392 Observations
Message-ID: <Pine.BSI.3.95.980811104324.2020A-100000@comet.connix.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The R-392 meter circuit is a bridge, with the meter in one leg, one of the IF stages in another leg, etc. It's also part of the AGC...

I believe my web site has this particular stage schematic, so even those without a manual can be "on the same page" so to speak.

P. J. "Josh" Rovero email: provero@connix.com
Oceanographer work: rovero@sonalysts.com
Meteorologist radio: KK1D
Curmudgeon at Large web: http://www.connix.com/~provero/

Date: Tue, 11 Aug 1998 11:55:56 -0400 (EDT)
From: Nick England <nick@cs.unc.edu>
Message-Id: <199808111555.LAA25010@altair.cs.unc.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Shelby (NC) hamfest ahoy!

The great Shelby NC hamfest is only a few weeks away (Sept 3-6)!! This is one of the largest in the country I believe and always has a pretty fair sampling of boatanchor-type people and gear.

Jack has set up a mailing list for boatanchorites who are planning to

attend and want to co-ordinate tailgate spots, dinner, etc.
Send e-mail to Jack <listown@jackatak.theporch.com> and ask him
to add you to the Shelby list.

Want more info on Shelby ?
     http://www.shelby.net/n4fan/

Want to see an aerial view of the hamfest ?
     http://www.cs.unc.edu/~nick/shelby3.jpg

See you there!
73 & Have Fun,
Nick England KD4CPL   nick@cs.unc.edu   Univ. Of North Carolina
http://www.cs.unc.edu/~nick/hobbies.html   Chapel Hill NC

Message-Id: <01BDC51F.7C3B48C0.roy.morgan@nist.gov>
From: "Roy S. Morgan" <roy.morgan@nist.gov>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: AN/URM-25D Renovation
Date: Tue, 11 Aug 1998 11:59:24 -0400

Grant and Anchorites,

HSN (Hollow State News) ran many articles on the care and
feeding of the URM-25D (and also the F model). A set of notes
on overhaul of the D model was witten up by one of their
well-known authors (can't remember his name just now). It gives
detailed complete instructions on curing the numerous ailments
of this fine generator. You really should NOT attempt much work
on the thing without these notes.

These notes are available from the HSN folks, and they do still
supply back issues including an index (this may not be the
latest information for them - corrections welcome):

Hollow State Newsletter
Ralph Sanserino
PO Box 1831
Perris CA 92572-1831

Subscriptions - $5 for 4 issues (3 issues published per year)
Back Issues - $1 each, all issues currently available - minimum
order is 5
issues
Selected Reprints - The best of HSN from issues 1 thru 4 - $1;
Rebuild
notes for the URM-25D - $1

Index - Issues 1 thru 35 (9 pages - topics by Issue/page number)
- $1
Payment - Send check or money order payable to Ralph Sanserino,
PO Box
1831, Perris CA 92572-1831. Prices apply to the USA, Canada,
and Mexico.
 Double quoted prices to other areas. Checks and money orders
must be in
USA funds payable in USA clearinghouse format.

----Roy Morgan
Hydrodynamics/Hydroacoustics Technology Center
Naval Surface Warfare Center, Carderock Division
9500 MacArthur Boulevard
West Bethesda, MD 20817-5700
301-227-3827   FAX: 301-227-3884----

-----Original Message-----
From: Grant Youngman [SMTP:nq5t@gte.net]
Sent: Sunday, August 09, 1998 5:06 PM
To: Old Tube Radios
Subject: AN/URM-25D Renovation

Gang ...

Anyone out there have any experience doing rework/renovation on
a
URM-25D?

Or perhaps know of someone who does this sort of thing
commercially?

Thanks ... Grant/nq5t

Date: Tue, 11 Aug 1998 11:51:27 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199808111651.LAA14782@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R392 Observations

Another possibility is that the moisture got to the meter, and corroded the
fine wire attachments - or grew crud on the core that jammed the coil. How
much water (if it's just water) would it take to get condensate on a room
temperature dial window? How did it get into the sealed set? Enclosures
with vents will 'breath' as temperature changes, and you can get moisture
that way over a long period of time. Or you can take the set out of the

sealed enclosure, leave it out in the rain or salt water spray, and then
say "Oops" and put it back in the case.

Regards,
Bill Hawkins

Message-Id: <3.0.5.32.19980811100216.007ac4d0@mail.willapabay.org>
Date: Tue, 11 Aug 1998 10:02:16 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: Re: Crypto wheels/cogs?
Cc: "Baxter Smith" <baxsmith@falls.igs.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Richard and the gang -

At 08:45 AM 08/11/98 -0400, Richard Brisson wrote:
>Good morning,
>A set of "crypto wheels" have just been sold at the following site:
>http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=24048585
>They are U.S. Army Signal Corps issue in a box identified as BX-37-B. There
>are 9 wheels and appear to contain "mechanical cogs".
>
>I have contacted the National Cryptologic Museum and they cannot identify
>these
>wheels. We would be much appreciative of any insight anyone may be able to
>provide.

  My guess is that it's a set of keying discs for a BC-645 IFF transponder.

  I don't have a BC-645 book, but my Navy ABA-1 book mentions a "Keying
Disc Set, Type C(*)-67AAB" and it's likely the Signal Corps had something
similar.

73
Dave Ross   KA6EPI   ross@hypertools.com

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Tue, 11 Aug 1998 13:09:57 -0400 (EDT)
Subject: LETS
To: Old Tube Radios <boatanchors@theporch.com>

From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9808111309.aa25486@pcusa01.ecunet.org>

To: boatanchors@theporch.com

> On Sun, 9 Aug 1998, JOHN SEHRING wrote:
>
> > I find that curious as the SX-101A (indeed the dual-conversion Halli's
> > used virtually the same 50 kHz IF strip all the way back in time to
> the > S-76 [and forward to the SX-122], althought a product detector
> didn't > appear in this line 'til the SX-101A) have very much the same
> circuitry, > particularly in the IF strip.
>
> Your comments are interesting in that I have been comparing the S-76 and
> SX-100 which I have. I more or less duplicated the SX-100 detector/AGC
> scheme into my S-76 and it works fine. (I used a Germanium diode for the
> AGC detector since the 76 has only a dual diode tube).

I was very surprised to learn that the S-76's AGC detector ct. is superior to the SX-96, -100 & -101! It is more like the SX-101A & later rx's.

The right place to get AGC is from a point of selectivity equal to where the AF detector gets its voltage. That way the receiver & its AGC channel have equal selectivity.

With the SX-96, -100 & -101 type
ct., the AGC rectifier is driven from the primary of the last IF xfmr, rather than the secondary where the highest amount of selectivity is available.

So Halli took a step backward with this! In a previous post, I talked about this. The the wider (less selective) AGC channel increases the chance of desense by strong adjacent channel sigs. It is done this way to reduce inter-station noise, ok for a consumer type radio but a handicap for a reall comm. type receiver.

So I would suggest you restore the S-76 AGC ct as it is better than the SX-100 ct, or to get the best, use the triple diode (6BJ7) ct of the SX-101A, -111 & -115 perhaps using the ss diode to avoid gross changes.

> What do you think constitutes a product detector? Some say that a true
> product detector has no output unless the BFO signal is present. I
> suppose that is the ideal situation, but the handbook says this is not
> necessarily true. It is a mixing process. I don't know what I'd call the
> detector in the 100. But it does work quite well on SSB with the RF gain
> full on, using AGC.

The envelope detector in the S-76, SX-96, -100 & -101 does not do a good

job on SSB unless you ride the RF gain way down. An envelope detector must have a BFO signal of about 10X the signal voltage to detect linearly & that can't happen with just AGC control of signal strength.

A real mixer will *not* allow either of the two mixing freqs thru if it's doing its job correctly. Some IF stuff sneaks thru the Halli product detectors (-101A, -111, -115) so some simple RC filtering is used to keep the 50 kHz stuff out of the audio. The Halli p.d. is very nice, e.g. listen to the -101A or -115.

I've installed this ct in my -100 & works excellently. The idea originally appeared in CQ mag early 60s. I have also use the slow release AGC ct. from the -101A.

 > Does the 115 have push-pull audio?
No, single 6AQ5 but uses negative feedback to reduce distortion.

 > One thing I noticed in the 76 and the 100 is a large amount of IF signal
 > getting thru the audio stages. I don't like that. At the expense of
 > losing a bit more high frequency response, I did increase the filtering
 > after the detector. Drake used a fairly elaborate lowpass filter in the
 > 2-B to get around that problem.

I use the Halli ct. from the SX-115, 2 poles of RC filtering, seems find but I haven't critically cked it, e.g. o'scope probing of AF stages.

Drake R-4 uses an RC pi-net to do same. The better the p.d., the less need for IF/BFO energy filtering.

 -John Sehring (3:28 pm Mon, Aug 10, 1998 at Custer, SD USA) ucc wb2eqg

---
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Tue, 11 Aug 1998 13:09:58 -0400 (EDT)
Subject: ULTRA MODULATION A.M.
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9808111309.aa25497@pcusa01.ecunet.org>

To: boatanchors@theporch.com

The only source of splatter in this setup will occur if you try to exceed 100% *negative* modulation.

This forces a 180 degree phase reversal of the transmitted signal resulting in very sharp corners on the waveform. Sharp corners mean lots of

harmonics = splatter.

The ultra modulation schemes, *if properly adjusted*, will not splatter.

 -John Sehring (5:52 pm Tue, Aug 11, 1998 at Custer, SD USA) ucc wb2eqg

---

Date: Tue, 11 Aug 1998 13:27:22 -0400 (EDT)
From: "Walter L. Marshall" <wmarshal@CapAccess.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Selloff.need funds.
Message-ID: <Pine.SUN.3.91-FP.980811125732.1454C@cap1.capaccess.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

   Dear Boatheads,
   There you have it. I need funds, and am selling most
of my collection (not the HQ-180.)
   Super Wasp, best offer over $400.
   R-390A, Amelco, w/meters and covers, $300, or BO.
   2 Super Pros, one works, $125 or BO.
   183D, not working, $100 or BO.
   SX62, Basket case, $50 or BO.
   B&W 5100, needs VFO work, $100 or BO.
   Marconi CH25 w/repro manual and spare coils, $150 or BO.
   Marcomi Atalanta, needs work w/repro manual, $150 or BO.
   FT 401B, basket w/new 6kd6 tubes, $75 or BO.
   Knight Ocean Hopper, w/repro manual, $100 or BO.
   Aerola Sr, $100 or BO.
   British Marconi Q meter. Beautiful. $100 or BO.
   HW 101, needs work, w/PS, $75 or BO.
   Nice tube collection, offer.
   Browning MK III, Works, except mod meter, $175 or BO.
   More to follow. I hate to do this, but you gotta do
what you gotta do.
   Prefrence given to people who can pick up equipment.
   I reserve the right to refuse low offers.
   Thanks, Lon

Message-ID: <01BDC52F.BF4D7060@esieb.gmsiworld.com>
From: Ed Sieb <esieb@gmsiworld.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: ULTRA MODULATION A.M.
Date: Tue, 11 Aug 1998 13:55:44 -0400
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Well, John is absolutely correct.
The _ONLY_ effect that "excessive" positive modulation, or excessive positive asymmetry
provides is to cause a perceived change in the relationship in the amplitude between the carrier
and sidebands. Effectively, this causes the transmitted signal to change from a normal,
AM/Double-Sideband with carrier, to more like a "double-sideband, _reduced_ carrier". As the
carrier gets more and more 'reduced" in relation to the sidebands, the more the signal sounds
like DSB or SSB, (which is what it's becoming). Distortion? Only at the receiver by virtue of the
inability of some detectors to detect DSB signals. As the modulation % increases beyond a
certain point, a synchronous detector is required. Why some detector circuits can handle
excessively modulated signals, while others can't, I'm not sure. Possibly full-wave rectifiers
in an AM detector might allow more recovered audio than a half-wave circuit? Not sure.

In a properly designed AGC circuit, excessive positive modulation should not be a problem.
Filter caps in the AGC circuit should help filter out excessive AGC "excursions" which might
develop because of high modulation levels. If the modulation is soooo excessive that such high
positive peaks cause an instantaneous gain "suck-out" at the moment of peak modulation, then
I suggest that the AGC circuit has a type of a hysterisis or a bias problem and needs correction.

73, de Ed, VA3ES

Message-ID: <35D0A00A.7CF1@visuallink.com>
Date: Tue, 11 Aug 1998 15:48:26 -0400
From: Dan Martin <dmartin@visuallink.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Ranger Help (Long!)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, all -

My pretty little Ranger flunked a smoke test yesterday. Worked fine last time I used it about a week ago. Turned the power switch to "tune" yesterday. The usual panel lights came on but in 4-5 seconds there was a faint flash from inside the cabinet somewhere and everything went dead. Obviously, when a tube or tubes started to conduct something gave way. Found one of the two fuses in the a.c plug blown. (No, I hadn't converted this to a three wire grounded version with an internal hotside fuse yet, but the chassis was well grounded, d.c. and r.f.) It may be significant that between the last good operation state a week ago and the failure yesterday I had the unit out of the cabinet. This only to add a slightly heavier brass ground screw on the back panel. I used the occasion to "Deoxit" several switches and sealed it back up. It is tempting to conclude the cabinet removal/replacement is involved in the failure but I do not know of any short, etc. See below. Troubleshooting so far reveals:

1. I can see absolutely no charred or overheated components anywhere. No clues or physical indication as to component failure and no idea what the faint flash was or where it came from. I noticed no obvious shorts around tube sockets. Physical inspection is negative.
2. Primaries and all secondaries of the power, modulation, audio driver, and HV and LV chokes are continuous and all spec out with correct series resistances. The iron seems OK.
3. With the back panel plug (X13B) removed and the unit off, I get 25K to ground from pin 4 of jack X13A. This is what the troubleshooting section of the manual says I should get and this indicates that if you have a fuse blowing problem the LV supply circuits are probably OK and not the cause.
4. Now it gets interesting .... checking resistance to ground from pins 5 and 6 on jack X13A reveals barely 12K and the manual says pins 5 and 6 to ground should be "many megohms". Since pins 5 and 6 are the modulated HV supply to the plate of the 6146B final and 6AQ5 clamper it certainly seems reasonable that a 500-plus volt circuit should have a little more impedance to ground than 12K!
6. I've checked "most" of the tubes for internal shorts of plates to other elements, including the final and clamper tubes. Seem OK.

At this point, it looks to me I've had a component failure in the final/clamper/modulator areas that has vastly drawn the HV line down to just 12K to ground. I imagine a bypass capacitor, perhaps? At this point all I know to do is begin alternately lifting the low side of every bypass cap in these circuits one-by-one and check to see when the resistance of X13A pins 5 and 6 go from 12K to "many megohms" Ugh. Is there a quicker way to see this through? Help, please, and shortcuts will be especially appreciated!

Dan
WB4GRA
Winchester, VA

Message-ID: <35D0A338.54E8D680@geo-thermal.com>
Date: Tue, 11 Aug 1998 15:02:00 -0500
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BC1206C
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Why would this be? Were our aircraft not fitted with a complete set of radio equipment before leaving this country? Surely the radios were not shipped overseas separately and England could not have been producing enough radios for this purpose. We were supplying many radios to them.

philip mccoy wrote:

> BC-1206C They were provided to the
> pilots ferring the B17s and other large airplanes across the
> atlantic during WW2.

--

Lenox

Lenox Carruth, Jr. carruth@geo-thermal.com Dallas, Texas
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TCS-14 Transmitter, TBX, BD-71, Sextant

Message-ID: <01BDC543.DAFC7220@esieb.gmsiworld.com>
From: Ed Sieb <esieb@gmsiworld.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Ranger Help (Long!)
Date: Tue, 11 Aug 1998 16:19:41 -0400

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

When I get problems like these, the first thing I do is yank out _all_ the tubes, to eliminate any possible "shorties".
Then I either measure according to the troubleshooting guide, or replace fuses and turn on for a smoke test.
If the problem persists, then I start looking around for bypass caps, etc.

Enjoy! ;-(

73, Ed, VA3ES

From: JONWEINER@aol.com
Message-ID: <7232275f.35d0bcf9@aol.com>
Date: Tue, 11 Aug 1998 17:51:47 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Literature for sale
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have an interesting collection of Ham Radio literature for sale. Dating from the early '60's, this is a 2" wide three ring binder with catalogs and/or data sheets from the following companies: AES, RCA, Ameco, Cushcraft, Hy-gain, Kreco Antennnas, WRL, Sonar, Newtronics, Freck Radio, Dow-Key, Henry Radio, Penta Labs, Harrison, Cordover, Mosley, Turner, Electrovoice, and several others. Most are in excellent condition and include price sheets. Several used equipment sheets also included. A great collection of what was available 35 years ago. Price: $35., plus $3. postage.

Jon, K1VVC

Message-Id: <3.0.5.32.19980811182002.009e49d0@mail1.telalink.net>
Date: Tue, 11 Aug 1998 18:20:02 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom Norris <badger@telalink.net>
Subject: RA6790 info needed (fwd.)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Can anyone help Mike? I know it is not a BA, but seems to
be popular umong BA'ers......

PLEASE REPLY TO HIM AND NOT ME.

Thanks

Tom

>From: "Mike Gibson" <mike@gibsonmb.demon.co.uk>
>I have obtained an RA6790/GM with some faults on and I need a few bits and
>wondered if they might be available in the US.
>
>The membrane keypads are in a very poor and I wondered if you can obtain
>s/hand ones of these and if so
>how much?
>
>The tracks have been broken on the flexible plastic ribbon cables from the
>membrane keypads. I will try to repair them with conductive paint but I
>think this may not be very successful.
>
>This unit has two boards fitted where the ISB board would normally go they
>have an AM and an FM output BNC socket on the back of the RX. The top board
>is marked as follows; A08912, A14.
>
>Any chance of finding circuit diagrams for this option?
>
>regards
>
>Mike Gibson
>mike@gibsonmb.demon.co.uk
>
>-
>
>
>

End of BOATANCHORS Digest 2166
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